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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 5

Complete If Known

Application Number	10/001,894
Filing Date	November 19, 2001
First Named Inventor	Jonathan J. Hull
Group Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	015358-007200US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
KS	1.	Adobe Premiere (video editing software) from Http://www.adobe.com (2002).	
KS	2.	BOBICK et al. "A State Based Approach to the Representation and Recognition of Gesture," IEEE Trans. on Pattern Analysis and Machine Intelligence, pp. 1325-1337 (1997).	
KS	3.	BORECZKY, J. et al. "An Interactive Comic Book Presentation for Exploring Video," Conference on Human factors in Computing Systems (CHI 2000), ACM Press, pp. 185-192, 2000.	
KS	4.	BOYKIN et al, "Improving Broadcast News Segmentation Processing," IEEE Multimedia '99 (1999).	
KS	5.	BOYKIN et al. "Machine learning of Event Segmentation for News on Demand," Communications of the ACM, 43:35-41(2000).	
KS	6.	BROWN et al. "Automatic Content-Based Retrieval of Broadcast News," ACM Multimedia 5, San Francisco, CA (1995).	
KS	7.	CAJ et al. "Integrated Multimedia Publishing -- Combining TV and Newspaper Content on Personal Channels," WWW8 Conference, 1999.	
KS	8.	CHEN et al. "Emotion Recognition from Audiovisual Information," Proc. IEEE Workshop on Multimedia Signal Processing, Los Angeles, CA, USA, pp. 83-88 (1998).	
KS	9.	CHEN et al. "ViBE: A Video Indexing and Browsing Environment," Proceedings of the SPIE Conference on Multimedia Storage and Archiving Systems September 20-22, 1999, Boston 3846:148-164 (1999).	
KS	10.	CHIU et al. "NoteLook: Taking Notes in Meetings with Digital Video and Ink," ACM Multimedia 99 Orlando, (1999).	
KS	11.	CHIU et al. "Automatically linking multimedia meeting documents by image matching," Proceedings of Hypertext '00. ACM, New York, pp. 244-245 (2000).	
KS	12.	CHRISTEL et al. "Evolving Video Skims into Useful Multimedia Abstractions," Proceedings of the CHI '98 Conference on Human Factors in Computing Systems (Los Angeles, CA, April 1998), pp. 171 -178 (1998).	
KS	13.	CHRISTEL et al. "Information Visualization within a Digital Video Library," Journal of Intelligent Information Systems 11:35-257 (1998).	
KS	14.	DELLAERT et al. "Recognizing emotion in speech," Proceedings ICSLP 98. Fourth International Conference on Spoken Language Processing New York (Cat. No. 98TH8206). IEEE. Vol:1970-1973 (1998).	
KS	15.	DIMITROVA et al. "Video Keyframe Extraction and Filtering: A Keyframe is not a Keyframe to Everyone," CIKM 1997:113-120 (1997).	

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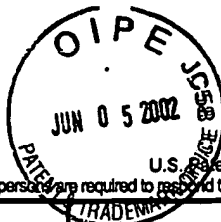
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Sheet 2 of 5

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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KS	16.	DOERMANN et al. "Applying Algebraic and differential invariants for logo recognition," Machine Vision and Applications 9:73-88 (1996).	
KS	17.	DONATO et al. "Classifying Facial Actions", IEEE Trans. on Pattern Analysis and Machine Intelligence, 21:974-989 (1999).	
KS	18.	ESSA et al. "Coding Analysis Interpretation and Recognition of Facial Expressions, IEEE Trans. on Pattern Analysis and Machine Intelligence, 19:757-763 (1997).	
KS	19.	Face recognition techniques described at web site http://www.visionics.com (2002).	
KS	20.	FOOTE, Jonathan, et al. "An Intelligent Media Browser using Automatic Multimodal Analysis," ACM Multimedia 8, Bristol, UK (1998).	
KS	21.	FURUI et al. "Japanese Broadcast News Transcription and Information Extraction," Communications of the ACM, 43(2):71-73, Feb 2000.	
KS	22.	GAUVAIN et al. "Transcribing Broadcast News for Audio and Video Indexing," Communications of the ACM, 43:64-70 (2000).	
KS	23.	GIBBON "Generating Hypermedia Documents from Transcriptions of Television Programs Using Parallel Text Alignment," Handbook of Internet and Multimedia Systems and Applications, David C. Gibbon; CRC Press, (1998).	
KS	24.	GORDON "Using annotated video as an information retrieval interface," ACM Proceedings of the 5th international Conference on Intelligent User Interfaces New Orleans pp. 133 - 140 (2000)	
KS	25.	HAUPTMANN et al. "Text, speech and vision for video segmentation: the Informedia project," Proc. AAAI Fall Symp. Computational Models for Integrating Language and Vision, Boston, MA, Nov. 10-12, 1995.	
KS	26.	HAUPTMANN et al. "Story Segmentation and Detection of Commercials in Broadcast News Video," Advances in Digital Libraries Conference, Santa Barbara, CA, April 22-23 1998.	
KS	27.	HE et al. "Comparing Presentation Summaries: Slides vs. Reading vs. Listening," Conference on Human factors in Computing Systems (CHI 2000), April 1-6, 2000.	
KS	28.	HECHT "Embedded data glyph Technology for Hardcopy Digital Documents," Proc. SPIE 2171:341-352 (1994).	

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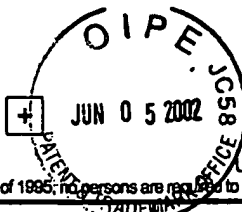
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29.	HECHT "Printed Embedded Data Graphical User Interfaces," IEEE Computer, March 2001.
30.	HU et al. "Multimedia Description Framework (MDF) for content descriptions of Audio/Video Documents," Fourth ACM Conference on Digital Libraries (DL '99) August 11-14, 1999.
31.	IOFFE et al. "Finding people by sampling," Proc. International Conference on Computer Vision, pp. 1092-1097 (1999).
32.	JIN et al. "Topic Tracking for Radio, TV Broadcast, and Newswire," Proceedings of the DARPA Broadcast News Workshop, Feb. 28-Mar 3, 1999, Herndon, VA.
33.	KOMLODI et al. "Key Frame Preview Techniques for Video Browsing," (Proceedings of the 3rd ACM International Conference on Digital Libraries, June 23-26, 1998, Pittsburgh, pp. 118-125 (1998).
34.	LI et al. "Automatic Text Detection and Tracking in Digital Video," IEEE Transactions on Image Processing - Special Issue on Image and Video Processing for Digital Libraries, 9:147-158 (2000).
35.	LI et al. "Text Extraction and Recognition in Digital Video," Proceedings of Third IAPR Workshop on Document Analysis Systems, pp. 119-128, 1998.
36.	LI et al. "VISION: a digital video library," Proceedings of the 1st ACM International Conference on Digital Libraries, pp. 19-27, 1996.
37.	LIANG et al. "Practical video indexing and retrieval system SPIE 3240:294-303, (1988).
38.	LIENHART et al. "On the Detection and Recognition of Television Commercials," Proc. IEEE Conf. on Multimedia Computing and Systems, Ottawa, Canada, pp. 509-516, June 1997.
39.	MA et al. "An Indexing and Browsing System For Home Video," Invited paper, EUSIPCO '2000, 10th European Signal Processing Conference, 5-8, Sept. 2000, Tampere, Finland.
40.	MAYBURY "News on Demand," Communications of the ACM, 43:33-34 (2000).
41.	MAYBURY et al. "Segmentation, Content Extraction and Visualization of Broadcast News Video Using Multistream Analysis," AAAI Paper (1997).
42.	MAYBURY et al. "Multimedia Summaries of Broadcast News," International Conference on Intelligent Information Systems pp. 447-449 (1997).
43.	MAYBURY et al. "Multimedia Summaries of Broadcast News," International Conference on Intelligent Information Systems, December 8-10, 1997.
44.	MERIALDO et al. "Automatic Construction of Personalized TV News Programs," Seventh ACM International Multimedia Conference, Orlando November 1999.
45.	MERLINO et al. "Broadcast News Navigation using Story Segmentation," Advanced Information Systems Center, The MITRE Corporation (1997).

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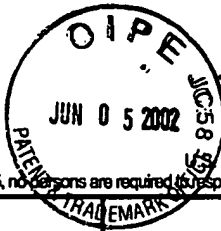
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Sheet 4 of 5

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Application Number	10/001,894
Filing Date	November 19, 2001
First Named Inventor	Jonathan J. Hull
Group Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	015358-007200US

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Technology Center 2100

46.	MERLINO et al. "Broadcast News Processing Techniques," MITRE Technical Report, MTR 99B0000031, April 1999.
47.	MOHAN "Text-based search of TV news stories," Proc. SPIE 2916:2-13 (1998).
48.	MYERS et al. "Multi-View Intelligent Editor for Digital Video Libraries," First ACM and IEEE Joint Conference on Digital Libraries, June 24-28, 2001, Roanoke, VA, pp. 108-115.
49.	OH et al. "Efficient and Cost-effective Techniques for Browsing and Indexing Large Video Databases," SIGMOD Conference 2000: 415-426
50.	PHOTINA et al. "Improving acoustic models with captioned multimedia speech," Proceedings IEEE International Conference on Multimedia Computing and Systems, 2:767-71 (1999).
51.	ROWLEY et al. "Neural network-based face detection," IEEE Transactions on Pattern Analysis and Machine Intelligence, 20:23-38 (1998).
52.	SHAHRARAY et al. "Automated Authoring of Hypermedia Documents of Video Programs," ACM Multimedia 95, November 5-9, 1995, San Francisco, CA (1995).
53.	SHAHRARAY et al. "Automatic generation of pictorial transcripts of video programs," Proceedings of the SPIE- Int. Soc. Opt. Eng. 2417:512-518 (1995).
54.	SHAHRARAY et al. "Pictorial transcripts: multimedia processing applied to digital library creation," 1997 IEEE First Workshop on Multimedia Signal Processing pp. 581-586 (1997).
55.	SMITH et al. "Video Skimming and Characterization through the Combination of Image and Language Understanding," Computer Vision and Pattern Recognition IEEE 1997.
56.	SONMEZ et al. "Multiple speaker tracking and detection: handset normalization and duration scoring," Digital Signal Processing 10:133-143 (2000).
57.	SUDA et al. "Logo and word matching using a general approach to signal registration," Fourth International Conference on Document Analysis and Recognition, Ulm, Germany, August 18-20, 1997, pp. 61-65.
58.	TENNENHOUSE et al. "A software-oriented approach to the design of media processing environments," Proceedings of the IEEE International Conference on Multimedia Computing and Systems, pp. 435-444 (1994).
59.	TONOMURA et al. "VideoMAP and VideoSpacelcon: tools for anatomizing video content," Proc. INTERCHI '93 ACM pp 131-136 (1993).
60.	UCHIHASHI et al. "Summarizing Video Using a Shot Importance Measure and a Frame-Packing Algorithm," Proceedings of the International Conference on Acoustics, Speech, and Signal Processing (Phoenix, AZ) 6:3041-3044 (1999).
61.	UCHIHASHI et al. "Video Manga: Generating Semantically Meaningful Video Summaries," ACM Multimedia 99, Orlando, Florida, October 30-November 5, 1999.
62.	Video content management and publishing software from Virage http://www.virage.com (2002).

Examiner Signature	<i>[Signature]</i>	Date Considered	9/12/02
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First Named Inventor	Jonathan J. Hull
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Attorney Docket Number	015358-007200US

Sheet 5 of 5

KS	63.	"Video Mail Retrieval Using Voice" Cambridge University Engineering Department Computer Laboratory and Olivetti Research Laboratory summary of research found at http://svr-www.eng.cam.ac.uk/research/projects/vmr/ (1997).	
KS	64.	WACTLAR et al. "Complementary Video and Audio Analysis for Broadcast News Archives," Communications of the ACM, 43:42-47 (2000).	
KS	65.	WACTLER et al. "Intelligent access to digital video: Informedia project," Computer 29:48-52 (1996).	
KS	66.	WEISS et al. "Composition and Search with a Video Algebra," IEEE Multimedia 2:12-25 (1995).	
KS	67.	WITTENBURG et al. "Browsing with Dynamic Key Frame Collages in Web-Based Entertainment Video Services," In Proceedings of IEEE International Conference on Multimedia Computing and Systems, June 7-11, 1999, Florence, Italy 2:913-918 (1999).	
KS	68.	ZHANG et al. "Detection of text Captions in Compressed domain Video," International Multimedia Conference Proceedings of the 2000 ACM workshops on Multimedia 2000, Los Angeles, California, United States pp. 201 - 204.	

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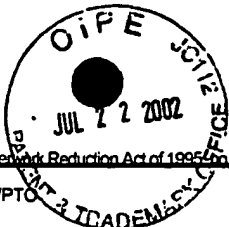
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Sheet 1 of 4

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Application Number	10/001,894
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First Named Inventor	Hull, Jonathan J.
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U.S. PATENT DOCUMENTS					
Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
KS	1	6,182,090	01-30-2001	Peairs	
KS	2	6,101,503	08-08-2000	Cooper et al.	
KS	3	6,055,542	04-25-2000	Nielsen et al.	
KS	4	6,028,601	02-22-2000	Machiraju et al.	
KS	5	6,026,409	02-15-2000	Blumenthal	
KS	6	6,021,403	02-01-2000	Horvitz et al.	
KS	7	6,008,218	12-21-1999	Breese et al.	
KS	8	5,987,454	11-16-1999	Hobbs	
KS	9	5,950,187	09-07-1999	Tsuda	
KS	10	5,948,678	08-31-1999	Aalbersberg	
KS	11	5,943,679	08-24-1999	Niles et al.	
KS	12	5,873,107	02-16-1999	Borovoy et al.	
KS	13	5,870,770	02-09-1999	Wolfe	
KS	14	5,860,074	01-12-1999	Rowe et al.	
KS	15	5,857,185	01-05-1999	Yamamura	
KS	16	5,838,317	11-17-1998	Bolnick et al.	
KS	17	5,832,474	11-03-1998	Lopresti et al.	
KS	18	5,819,301	10-06-1998	Rowe et al.	
KS	19	5,784,616	07-21-1998	Horvitz	
KS	20	5,781,785	07-14-1998	Rowe et al.	
KS	21	5,778,397	07-07-1998	Kupiec et al.	
KS	22	5,761,655	06-02-1998	Hoffman	
KS	23	5,748,805	05-05-1998	Withgott et al.	
KS	24	5,737,599	04-07-1998	Rowe et al.	
KS	25	5,694,559	12-02-1997	Hobsen et al.	
KS	26	5,680,636	10-21-1997	Levine et al.	
KS	27	5,638,543	06-10-1997	Pedersen et al.	
KS	28	5,596,700	01-21-1997	Darnell et al.	
KS	29	5,481,666	01-02-1996	Nguyen et al.	
KS	30	5,479,600	12-26-1995	Wroblewski et al.	
KS	31	5,442,795	08-15-1995	Levine et al.	
KS	32	5,418,948	05-23-1995	Turtle	
KS	33	5,404,295	04-04-1995	Katz et al.	
KS	34	5,384,703	01-24-1995	Withgott et al.	

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KS	35	5,349,658	09-20-1994	O'Rourke et al.	RECEIVED JUL 24 2002 Technology Center 2100
KS	36	5,309,359	05-03-1994	Katz et al.	
KS	37	5,153,831	10-06-1992	Yianilos	
KS	38	4,823,303	04-18-1989	Terasawa	
KS	39	4,417,239	11-22-1983	Demke et al.	
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
KS	40	EP	802 492	A1	10-22-1997	IBM Corporation		
KS	41	EP	782 297	A2	03-12-1997	Sun Microsystems		
KS	42	EP	737 927	A2	10-16-1996	Xerox Corporation		
KS	43	EP	378 848	A2	07-05-1990	IBM Corporation		
KS	44	EP	459 174	B1	11-20-1996	Cina		
KS	45	GB	2 290 898	A	01-10-1996	Canon Business Machines, Inc.		
KS	46	GB	2 234 609	A	02-06-1991	IBM Corporation		
KS	47	GB	2 156 118	A	10-02-1985	Canon Kabushiki Kaisha		
KS	48	GB	2 137 788	A	10-10-1984	Gavilan Computer Corporation		
KS	49	JP	8-297677	A	11-12-1996	Xerox Corporation		
KS								

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 3 of 4

Compleat if Known

Application Number	10/001,894
Filing Date	November 19, 2001
First Named Inventor	Hull, Jonathan J.
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	015358-007200US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
US	50	Acrobat Reader Version 2.0 (software application), Adobe Systems Incorporated, screenshots Figures 1-10 (1994).	
US	51	Adobe Acrobat Reader 3.0 screen dumps (fig. 1-3), (1996).	
US	52	Adobe Systems, Inc., "Adobe Photoshop 4.0 User Guide for Macintosh and Windows," pp. 30-31 (1996).	
US	53	Apple Macintosh system 7 reference manual, pages 30-31 (1991).	
US	54	BALL et al. "Software Visualization in the Large", IEEE Computer, 29: 33-43 (1996).	
US	55	BOGURAEV et al. "Saliency-Based Content Characterisation of Text Documents," <u>Proceedings of the ACL/EACL Workshop on Intelligent (Sic) Scalable Text Summarization</u> , 1997. Topic identification, Discourse-based summarization, pp. 1-12 (1997).	
US	56	BRANDOW et al. "Automatic Condensation of Electronic Publications by Sentence Selection," <u>Information Processing and Management</u> , 31(5):675-685 (1995).	
US	57	GLIEDMAN "Virtual Office Managers," Computer Shopper, 18:290 (1998).	
US	58	GREENBERG et al., "Sharing fisheye views in relaxed-WYSIWIS groupware applications," <u>Proceedings of Graphics Interface</u> , Toronto, Canada, May 22-24, 1995, Distributed by Morgan-Kaufmann, Pp. 28-38, http://www.cpsc.ucalgary.ca/group/lab/papers/1996/96-Fisheye.GI/gi98_fisheye.html .	
US	59	HEARST et al. "TileBars: Visualization of Term Distribution Information in Full Text Information Access," <u>Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)</u> , Denver, CO., May 1995, Pp. 1-8, http://www.acm.org/sigchi/chi95/Electronic/documents/papers/mah_bdy.htm .	
US	60	HILL et al. "Edit Wear and Read Wear", ACM, pp. 3-9 (May 3-7, 1992).	
US	61	LANGLEY "An Analysis of Bayesian Classifiers," <u>Proceedings of the Tenth National Conference on Artificial Intelligence</u> , pp. 223-228, 1992.	
US	62	LANGLEY "Induction of Selective Bayesian Classifiers," <u>Proceedings of the Tenth National Conference on Uncertainty in Artificial Intelligence</u> , pp. 400-406, (1994).	
US	63	MANBER "The Use of Customized Emphasis in Text Visualization," <u>Proceedings of 1997 IEEE Conf. on Information Visualization</u> , pages 132-138, (1997).	
US	64	SCHWEIGHOFER et al. "The Automatic Generation of Hypertext Links in Legal Documents," <u>Lecture Notes in Computer Science</u> , vol. 1134, Wagner et al., eds., from 7th Int. Conf., DEXA 96, held 9/96 in Zurich, Switzerland (1996)	

Examiner
Signature*Ulye Stole*Date
Considered*9/17/01*

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

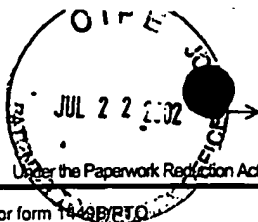
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Sheet	4	of	4	Attorney Docket Number	015358-007200US

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US	65	SUMITA et al. "Document Structure Extraction for Interactive Document Retrieval Systems," <u>Proceedings of SIGDOC 93</u> , pages 301-310, (1993).	
US	66	TAGHVA et al. "An Evolution of an Automatic Markup System," <u>SPIE</u> , 2422:317-327 (1995).	
UK	67	TAXT "Segmentation of Document Images," IEEE 11:1322-1329 (1989).	

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